



SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: R. Bruce Wallace

(ii) TITLE OF INVENTION: Ligation Amplification of Nucleic Acid Sequences

(iii) NUMBER OF SEQUENCES: Fifteen

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: City of Hope

(B) STREET: 1500 East Duarte Road

(C) CITY: Duarte

(D) STATE: California

(E) COUNTRY: United States of America

(F) ZIP: 91010-0269

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: 3M Double Density 5 1/4" diskette

(B) COMPUTER: Wang PC

(C) OPERATING SYSTEM: MS-DOS (R) Version 3.30

(D) SOFTWARE: Microsoft (R)

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER:

(B) FILING DATE:

(C) CLASSIFICATION: Unknown

(vii) PRIOR APPLICATION DATA: None

(A) APPLICATION NUMBER: 07/870,221

(B) FILING DATE: 20 April 1992

(C) CLASSIFICATION: Unknown

(D) APPLICATION NUMBER: 07/178,377

(B) FILING DATE: 06 April 1988

(C) CLASSIFICATION: Unknown

(viii) ATTORNEY/AGENT INFORMATION:

- (A) NAME: Irons, Edward S.
- (B) REGISTRATION NUMBER: 16,541
- (C) REFERENCE/DOCKET NUMBER: None

(ix) TELECOMMUNICATION INFORMATION:

- (A) TELEPHONE: (202) 785-6938
- (B) TELEFAX: (202) 785-5351
- (C) TELEX: 440087 LM WSH

(2) INFORMATION FOR SEQ ID NO: 1:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14
- (B) TYPE: Oligonucleotide
- (C) STRANDEDNESS: Single Stranded
- (D) TOPOLOGY: Linear

(ii) MOLECULE TYPE: Not Applicable

(iii) HYPOTHETICAL: Not Applicable

(iv) ANTI-SENSE: Not Applicable

(v) FRAGMENT TYPE: Not Applicable

(vi) ORIGINAL SOURCE: Synthetically Prepared

(vii) IMMEDIATE SOURCE: Synthetically Prepared

(viii) POSITION IN GENOME: None

(ix) FEATURE: None

(x) PUBLICATION INFORMATION: None

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

CGGCAGACTT CTCC

14

(2) INFORMATION FOR SEQ ID NO: 2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 8
- (B) TYPE: Oligonucleotide

(C) STRANDEDNESS: Single Stranded
(D) TOPOLOGY: Linear
(ii) MOLECULE TYPE: Not Applicable
(iii) HYPOTHETICAL: Not Applicable
(iv) ANTI-SENSE: Not Applicable
(v) FRAGMENT TYPE: Not Applicable
(vi) ORIGINAL SOURCE: Synthetically Prepared
(vii) IMMEDIATE SOURCE: Synthetically Prepared
(viii) POSITION IN GENOME: None
(ix) FEATURE: None
(x) PUBLICATION INFORMATION: None
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
TCAGGAGT

8

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 6
(B) TYPE: Oligonucleotide
(C) STRANDEDNESS: Single Stranded
(D) TOPOLOGY: Linear
(ii) MOLECULE TYPE: Not Applicable
(iii) HYPOTHETICAL: Not Applicable
(iv) ANTI-SENSE: Not Applicable
(v) FRAGMENT TYPE: Not Applicable
(vi) ORIGINAL SOURCE: Synthetically Prepared
(vii) IMMEDIATE SOURCE: Synthetically Prepared
(viii) POSITION IN GENOME: None
(ix) FEATURE: None
(x) PUBLICATION INFORMATION: None
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
TCAGGA

6

(2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 8
- (B) TYPE: Oligonucleotide
- (C) STRANDEDNESS: Single Stranded
- (D) TOPOLOGY: Linear

(ii) MOLECULE TYPE: Not Applicable

(iii) HYPOTHETICAL: Not Applicable

(iv) ANTI-SENSE: Not Applicable

(v) FRAGMENT TYPE: Not Applicable

(vi) ORIGINAL SOURCE: Synthetically Prepared

(vii) IMMEDIATE SOURCE: Synthetically Prepared

(viii) POSITION IN GENOME: None

(ix) FEATURE: None

(x) PUBLICATION INFORMATION: None

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

ACAGGAGT

8

(2) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 6
- (B) TYPE: Oligonucleotide
- (C) STRANDEDNESS: Single Stranded
- (D) TOPOLOGY: Linear

(ii) MOLECULE TYPE: Not Applicable

(iii) HYPOTHETICAL: Not Applicable

(iv) ANTI-SENSE: Not Applicable

(v) FRAGMENT TYPE: Not Applicable

(vi) ORIGINAL SOURCE: Synthetically Prepared

(vii) IMMEDIATE SOURCE: Synthetically Prepared

(viii) POSITION IN GENOME: None

(ix) FEATURE: None
(x) PUBLICATION INFORMATION: None
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

ACAGGA

6

(2) INFORMATION FOR SEQ ID NO:6:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 14
(B) TYPE: Oligonucleotide
(C) STRANDEDNESS: Single Stranded
(D) TOPOLOGY: Linear
(ii) MOLECULE TYPE: Not Applicable
(iii) HYPOTHETICAL: Not Applicable
(iv) ANTI-SENSE: Not Applicable
(v) FRAGMENT TYPE: Not Applicable
(vi) ORIGINAL SOURCE: Synthetically Prepared
(vii) IMMEDIATE SOURCE: Synthetically Prepared
(viii) POSITION IN GENOME: None
(ix) FEATURE: None
(x) PUBLICATION INFORMATION: None
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

CACCTGACTC CTGA 14

(2) INFORMATION FOR SEQ ID NO:7:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 14
(B) TYPE: Oligonucleotide
(C) STRANDEDNESS: Single Stranded
(D) TOPOLOGY: Linear
(ii) MOLECULE TYPE: Not Applicable
(iii) HYPOTHETICAL: Not Applicable

(iv) ANTI-SENSE: Not Applicable
(v) FRAGMENT TYPE: Not Applicable
(vi) ORIGINAL SOURCE: Synthetically Prepared
(vii) IMMEDIATE SOURCE: Synthetically Prepared
(viii) POSITION IN GENOME: None
(ix) FEATURE: None
(x) PUBLICATION INFORMATION: None
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
CACCTGACTC CTGT

14

(2) INFORMATION FOR SEQ ID NO:8:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 8
(B) TYPE: Oligonucleotide
(C) STRANDEDNESS: Single Stranded
(D) TOPOLOGY: Linear
(ii) MOLECULE TYPE: Not Applicable
(iii) HYPOTHETICAL: Not Applicable
(iv) ANTI-SENSE: Not Applicable
(v) FRAGMENT TYPE: Not Applicable
(vi) ORIGINAL SOURCE: Synthetically Prepared
(vii) IMMEDIATE SOURCE: Synthetically Prepared
(viii) POSITION IN GENOME: None
(ix) FEATURE: None
(x) PUBLICATION INFORMATION: None
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
GGAGAAGT

8

(2) INFORMATION FOR SEQ ID NO:9:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 6

(B) TYPE: Oligonucleotide
(C) STRANDEDNESS: Singl Stranded
(D) TOPOLOGY: Linear
(ii) MOLECULE TYPE: Not Applicable
(iii) HYPOTHETICAL: Not Applicable
(iv) ANTI-SENSE: Not Applicable
(v) FRAGMENT TYPE: Not Applicable
(vi) ORIGINAL SOURCE: Synthetically Prepared
(vii) IMMEDIATE SOURCE: Synthetically Prepared
(viii) POSITION IN GENOME: None
(ix) FEATURE: None
(x) PUBLICATION INFORMATION: None
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
GGAGAA

6

(2) INFORMATION FOR SEQ ID NO:10:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 19
(B) TYPE: Oligonucleotide
(C) STRANDEDNESS: Single Stranded
(D) TOPOLOGY: Linear
(ii) MOLECULE TYPE: Not Applicable
(iii) HYPOTHETICAL: Not Applicable
(iv) ANTI-SENSE: Not Applicable
(v) FRAGMENT TYPE: Not Applicable
(vi) ORIGINAL SOURCE: Synthetically Prepared
(vii) IMMEDIATE SOURCE: Synthetically Prepared
(viii) POSITION IN GENOME: None
(ix) FEATURE: None
(x) PUBLICATION INFORMATION: None

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

CTCCTGAGGA GAAGTCTGC

19

(2) INFORMATION FOR SEQ ID NO:11:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19
- (B) TYPE: Oligonucleotide
- (C) STRANDEDNESS: Single Stranded
- (D) TOPOLOGY: Linear

(ii) MOLECULE TYPE: Not Applicable

(iii) HYPOTHETICAL: Not Applicable

(iv) ANTI-SENSE: Not Applicable

(v) FRAGMENT TYPE: Not Applicable

(vi) ORIGINAL SOURCE: Synthetically Prepared

(vii) IMMEDIATE SOURCE: Synthetically Prepared

(viii) POSITION IN GENOME: None

(ix) FEATURE: None

(x) PUBLICATION INFORMATION: None

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

CTCCTGTGGA GAAGTCTGC

19

(2) INFORMATION FOR SEQ ID NO:12:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 23
- (B) TYPE: Oligonucleotide
- (C) STRANDEDNESS: Single Stranded
- (D) TOPOLOGY: Linear

(ii) MOLECULE TYPE: Not Applicable

(iii) HYPOTHETICAL: Not Applicable

(iv) ANTI-SENSE: Not Applicable

(v) FRAGMENT TYPE: Not Applicable

(vi) ORIGINAL SOURCE: Synthetically Prepared
(vii) IMMEDIATE SOURCE: Synthetically Prepared
(viii) POSITION IN GENOME: None
(ix) FEATURE: None
(x) PUBLICATION INFORMATION: None
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
CGGCAGACTT CTCCTCAGGA GTC 23

(2) INFORMATION FOR SEQ ID NO:13:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 23
(B) TYPE: Oligonucleotide
(C) STRANDEDNESS: Single Stranded
(D) TOPOLOGY: Linear
(ii) MOLECULE TYPE: Not Applicable
(iii) HYPOTHETICAL: Not Applicable
(iv) ANTI-SENSE: Not Applicable
(v) FRAGMENT TYPE: Not Applicable
(vi) ORIGINAL SOURCE: Synthetically Prepared
(vii) IMMEDIATE SOURCE: Synthetically Prepared
(viii) POSITION IN GENOME: None
(ix) FEATURE: None
(x) PUBLICATION INFORMATION: None
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
CGGCAGACTT CTCCACAGGA GTC 23

(2) INFORMATION FOR SEQ ID NO:14:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 14
(B) TYPE: Oligonucleotide
(C) STRANDEDNESS: Single Stranded

(D) TOPOLOGY: Linear
(ii) MOLECULE TYPE: Not Applicable
(iii) HYPOTHETICAL: Not Applicable
(iv) ANTI-SENSE: Not Applicable
(v) FRAGMENT TYPE: Not Applicable
(vi) ORIGINAL SOURCE: Synthetically Prepared
(vii) IMMEDIATE SOURCE: Synthetically Prepared
(viii) POSITION IN GENOME: None
(ix) FEATURE: None
(x) PUBLICATION INFORMATION: None
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
CCTCTTCAGA CGGC

14

(2) INFORMATION FOR SEQ ID NO:15:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 8
(B) TYPE: Oligonucleotide
(C) STRANDEDNESS: Single Stranded
(D) TOPOLOGY: Linear
(ii) MOLECULE TYPE: Not Applicable
(iii) HYPOTHETICAL: Not Applicable
(iv) ANTI-SENSE: Not Applicable
(v) FRAGMENT TYPE: Not Applicable
(vi) ORIGINAL SOURCE: Synthetically Prepared
(vii) IMMEDIATE SOURCE: Synthetically Prepared
(viii) POSITION IN GENOME: None
(ix) FEATURE: None
(x) PUBLICATION INFORMATION: None
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
TGAGGACT

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